

WagoLib787_01.lib

The "WagoLib787_01.lib" library makes function blocks and visualization objects available which can be used to display information from the 787 Series power supply modules.

You will find
the library *WagoLib787_01.lib* for CODESYS V2.3
and
a sample program *WagoLib787_01_example_01.pro* for CODESYS V2.3
under
www.wago.com

→ Downloads → Download Assistant → Search Term *WagoLib787_01*.

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WagoLib787_01.lib

Modules

FB78785xGetData

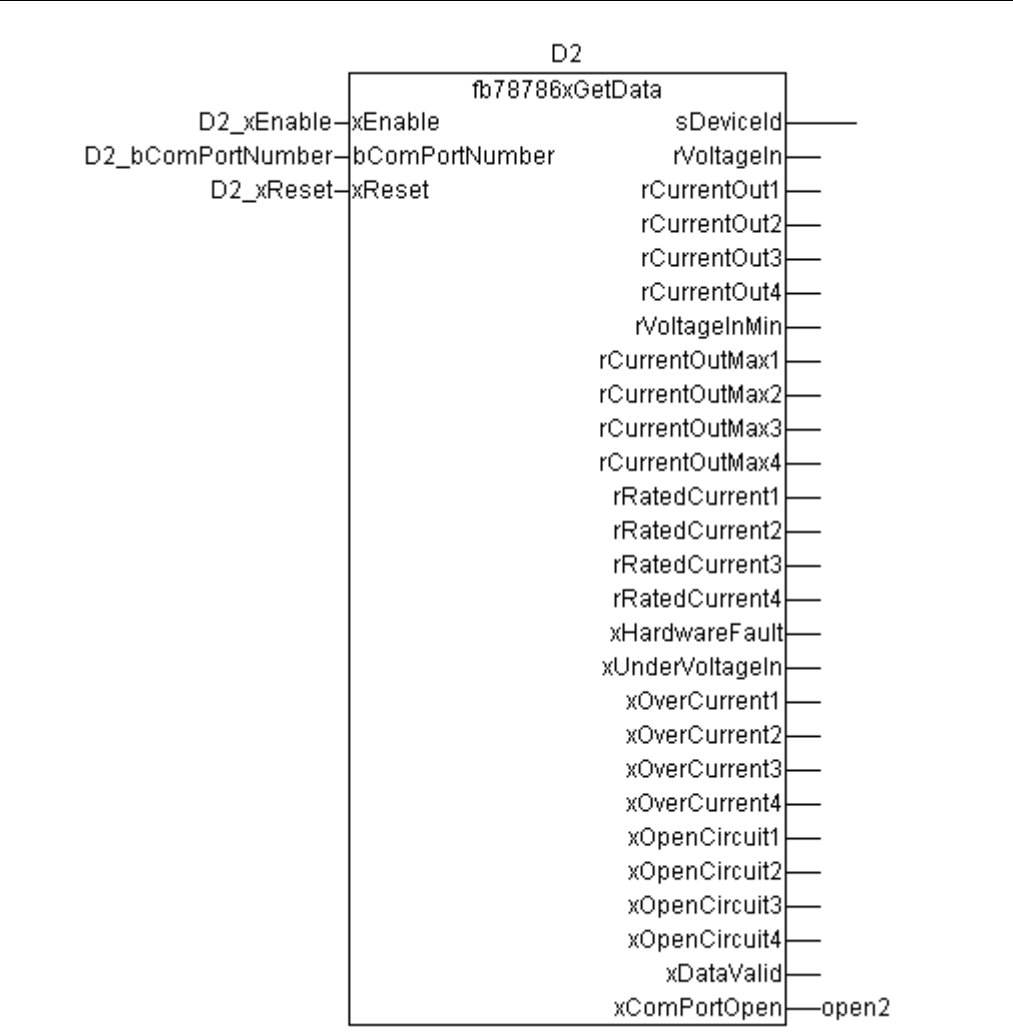
WAGO-I/O-PRO Library Elements			
Category:			
Name:	FB78785xGetData		
Type:	Function	Function Block X	Program
Name of library:	WagoLib787_01.lib		
Libraries used	Sercom.lib; Serial_Interface_01.lib		
Applicable to:	750-8xx		
Input parameter:	Data type:	Description:	
xEnable	BOOL	Module processing	
bComPortNumber	BYTE	Interface number	
xReset	BOOL	Reset	
Input/output parameters:	Data type:	Description:	
Output parameter:	Data type:	Description:	
sDeviceId	STRING	Device ID	
rVoltageIn1	REAL	Current RMS value for input voltage, Phase 1	
rVoltageIn2	REAL	Current RMS value for input voltage, Phase 2	
rVoltageIn3	REAL	Current RMS value for input voltage, Phase 3	
iFrequencyIn	INT	Input frequency in Hz	
rVoltageIn3PAverage	REAL	Current RMS value for input voltage (AC) in V, averaged over all 3 phases	
xAC3PRotateRight	BOOL	Clockwise phase	
xAC3PRotateLeft	BOOL	Counter-clockwise phase	
rVoltageOutDC	REAL	Output voltage (DC) in V	
rCurrentOutDC	REAL	Momentary output current (DC) in A	
rCurrentOutMaxDC	REAL	Maximum output current (DC) in A	
rCurrentOutMinDC	REAL	Minimum output current (DC) in A	
dwOperatingHours	DWORD	Current hours of opeation in h	
xHardwareFault	BOOL	Hardware fault on the device	
xCommFault	BOOL	Communication error in the device	
xPhase1Fault	BOOL	Phase breakdown, Phase1 AC	
xPhase2Fault	BOOL	Phase breakdown, Phase2 AC	

WAGO-I/O-PRO Library Elements		
xPhase3Fault	BOOL	Phase breakdown, Phase3 AC
xLineOffAC	BOOL	Mains failure AC
xOverVoltageAC1	BOOL	Grid overload, Phase1 AC
xOverVoltageAC2	BOOL	Grid overload, Phase2 AC
xOverVoltageAC3	BOOL	Grid overload, Phase3 AC
xUnderVoltageAC1	BOOL	Grid overload, Phase1 AC
xUnderVoltageAC2	BOOL	Grid overload, Phase2 AC
xUnderVoltageAC3	BOOL	Grid overload, Phase3 AC
xOverFrequencyAC	BOOL	Grid frequency too high AC (> 66Hz)
xUnderFrequencyAC	BOOL	Grid frequency too low AC (< 44Hz)
xOverCurrentDC	BOOL	DC Overcurrent
xUnderVoltageDC	BOOL	DC OvervoltageUnterspannung DC
xDataValid	BOOL	Data is valid
xComPortOpen	BOOL	Port is open
Graphical description:		
<div> <div>D1</div> <div>fb78785xGetData</div> <div> <div> D1_xEnable—xEnable D1_bComPortNumber—bComPortNumber D1_xReset—xReset </div> <div> sDeviceId rVoltageIn1 rVoltageIn2 rVoltageIn3 iFrequencyIn rVoltageIn3PAverage xAC3PRotateRight xAC3PRotateLeft rVoltageOutDC rCurrentOutDC rCurrentOutMaxDC rCurrentOutMinDC dwOperatingHours xHardwareFault xCommFault xPhase1Fault xPhase2Fault xPhase3Fault xLineOffAC xOverVoltageAC1 xOverVoltageAC2 xOverVoltageAC3 xUnderVoltageAC1 xUnderVoltageAC2 xUnderVoltageAC3 xOverFrequencyAC xUnderFrequencyAC xOverCurrentDC xUnderVoltageDC xDataValid—valid xComPortOpen—open1 </div> </div> </div>		

WAGO-I/O-PRO Library Elements	
Function description:	
<p>The module is activated via the xEnable input.</p> <p>The xOpenComPort output is set to True after the interface has been opened successfully. The xDataValid bit is set to True when the module has output a valid data set.</p>	

FB78786xGetData

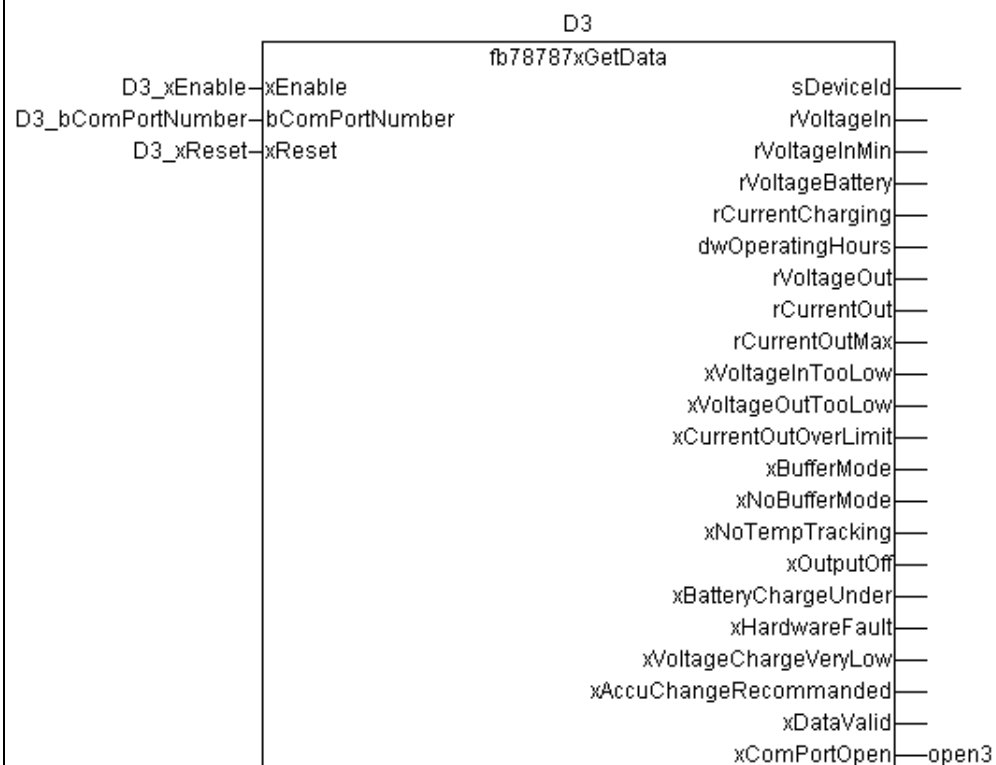
WAGO-I/O-PRO Library Elements			
Category:			
Name:		FB78786xGetData	
Type:		Function	Function Block X Program
Name of library:		WagoLib787_01.lib	
Libraries used		Sercom.lib; Serial_Interface_01.lib	
Applicable to:		750-8xx	
Input parameter:		Data type:	Description:
xEnable		BOOL	Module processing
bComPortNumber		BYTE	Interface number
xReset		BOOL	Reset
Input/output parameters:		Data type:	Description:
Output parameter:		Data type:	Description:
sDeviceId		STRING	Device ID
rVoltageIn		REAL	Current input voltage in V
rCurrentOut1		REAL	Output current, Channel 1 in A
rCurrentOut2		REAL	Output current, Channel 1 in A
rCurrentOut3		REAL	Output current, Channel 1 in A
rCurrentOut4		REAL	Output current, Channel 1 in A
rVoltageInMin		REAL	Current input voltage in V
rCurrentOutMax1		REAL	Maximum output current, Channel 1 in A
rCurrentOutMax2		REAL	Maximum output current, Channel 2 in A
rCurrentOutMax3		REAL	Maximum output current, Channel 3 in A
rCurrentOutMax4		REAL	Maximum output current, Channel 4 in A
rRatedCurrent1		REAL	Set nominal current, Channel 1
rRatedCurrent2		REAL	Set nominal current, Channel 2
rRatedCurrent3		REAL	Set nominal current, Channel 3
rRatedCurrent4		REAL	Set nominal current, Channel 4
xHardwareFault		BOOL	Communication error in the device
xUnderVoltageIn		BOOL	Input voltage under "Power Good"
xOverCurrent1		BOOL	Overcurrent, Channel 1
xOverCurrent2		BOOL	Overcurrent, Channel 2
xOverCurrent3		BOOL	Overcurrent, Channel 3
xOverCurrent4		BOOL	Overcurrent, Channel 4
xOpenCircuit1		BOOL	Channel 1 triggered
xOpenCircuit2		BOOL	Channel 2 triggered
xOpenCircuit3		BOOL	Channel 3 triggered
xOpenCircuit4		BOOL	Channel 4 triggered
xDataValid		BOOL	Data is valid
xComPortOpen		BOOL	Port is open

WAGO-I/O-PRO Library Elements	
Graphical description:	
	
Function description:	
<p>The module is activated via the xEnable input.</p> <p>The xOpenComPort output is set to True after the interface has been opened successfully. The xDataValid bit is set to True when the module has output a valid data set.</p>	

FB78787xGetData

WAGO-I/O-PRO Library Elements			
Category:			
Name:	FB78787xGetData		
Type:	Function	Function Block X	Program
Name of library:	WagoLib787_01.lib		
Libraries used	Sercom.lib; Serial_Interface_01.lib		
Applicable to:	750-8xx		
Input parameter:	Data type:	Description:	
xEnable	BOOL	Module processing	
bComPortNumber	BYTE	Interface number	
xReset	BOOL	Reset	
Input/output parameters:	Data type:	Description:	
Output parameter:	Data type:	Description:	
sDeviceId	STRING	Device ID	
rVoltageIn	REAL	Input voltage of the module in V	
rVoltageInMin	REAL	Minimum input voltage in V	
rVoltageBattery	REAL	Battery voltage of the module in V	
rCurrentCharging	REAL	Charging current of the module in A	
dwOperatingHours	DWORD	Current hours of ooperation in h	
rVoltageOut	REAL	Output voltage of the module in V	
rCurrentOut	REAL	Output current of the module in A	
rCurrentOutMax	REAL	Maximum output current in A	
xVoltageInTooLow	BOOL	Input voltage has fallen below the limit	
xVoltageOutTooLow	BOOL	Output voltage has fallen below the limit	
xCurrentOutOverLimit	BOOL	Output voltage has increased above limit	
xBufferMode	BOOL	Buffer mode	
xNoBufferMode	BOOL	Buffer mode not possible	
xNoTempTracking	BOOL	Temperature-based charging not possible	
xOutputOff	BOOL	Output is deactivated	
xBatteryChargeUnder	BOOL	Battery charge < 85 %	
xHardwareFault	BOOL	Device fault (error)	
xVoltageChargeVeryLow	BOOL	Battery voltage extremely low in Buffer mode	
xAccuChangeRecommanded	BOOL	Battery replacement recommended	
xDataValid	BOOL	Data is valid	
xComPortOpen	BOOL	Port is open	
Graphical description:			

WAGO-I/O-PRO Library Elements



Function description:

The module is activated via the **xEnable** input.

The **xOpenComPort** output is set to **True** after the interface has been opened successfully. The **xDataValid** bit is set to **True** when the module has output a valid data set.

FB787_1662

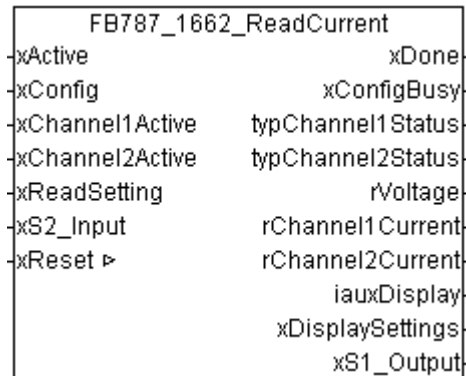
WAGO-I/O-PRO Library Elements			
Category:			
Name:		FB787_1662	
Type:		Function	Function Block X Program
Name of library:		WagoLib787_01.lib	
Libraries used			
Applicable to:		750-8xx	
Input parameter:		Data type:	Description:
xActive		BOOL	Module processing
xConfig		BOOL	Start channel configuration
xChannel1Active		BOOL	Activate Channel 1
xChannel2Active		BOOL	Activate Channel 2
xS2_Input		BOOL	Connection to S2 of the device
Input/output parameters:		Data type:	Description:
xReset		BOOL	Reset error and warning
Output parameter:		Data type:	Description:
xDone		BOOL	Configuration has been performed
xConfigBusy		BOOL	Configuration being performed
typChannel1Status		typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active
typChannel2Status		typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active
xS1_Output		BOOL	Connection to S1 of the device
Graphical description:			
<div><div>FB787_1662</div><div><div><div>-xActive</div><div>-xConfig</div><div>-xChannel1Active</div><div>-xChannel2Active</div><div>-xS2_Input</div><div>-xReset ▶</div></div><div><div>xDone</div><div>xConfigBusy</div><div>typChannel1Status</div><div>typChannel2Status</div><div>xS1_Output</div></div></div></div>			

WAGO-I/O-PRO Library Elements
Function description:
<p>Attention: This module must be executed in its own task with a call-up interval of 70 ms.</p> <p>The module is activated via the xActive input. If configuration of the channels is to be performed using the buttons on the device, the module must be deactivated while configuration is in progress.</p> <p>The connection to the device is made via a digital input xS2_Input and via a digital output xS1_Output.</p> <p>You can select the channels to be activated via the xChannelxActive inputs. Configuration is started using the xConfig input. The xDone output signals the completion of the configuration procedure. The current status of the various channels is indicated at the typChannelxStatus outputs.</p>

FB787_1662_ReadCurrent

WAGO-I/O-PRO Library Elements			
Category:			
Name:		FB787_1662_ReadCurrent	
Type:		Function	Function Block X Program
Name of library:		WagoLib787_01.lib	
Libraries used			
Applicable to:		750-8xx	
Input parameter:		Data type:	Description:
xActive		BOOL	Module processing
xConfig		BOOL	Start channel configuration
xChannel1Active		BOOL	Activate Channel 1
xChannel2Active		BOOL	Activate Channel 2
xReadSetting		BOOL	0:read actual current,1:read setting
xS2_Input		BOOL	Connection to S2 of the device
Input/output parameters:		Data type:	Description:
xReset		BOOL	Reset error and warning
Output parameter:		Data type:	Description:
xDone		BOOL	Configuration has been done
xConfigBusy		BOOL	Configuration being performed
typChannel1Status		typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active
typChannel2Status		typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active
rVoltage		REAL	Supply Voltage
rChannel1Current		REAL	Either actual current or current setting
rChannel2Current		REAL	Either actual current or current setting
iauxDisplay		INT	Counter (shows progress)
xDisplaySettings		BOOL	Shows if rChannelxCurrent contains actual current (0) or current settings (1)
xS1_Output		BOOL	Connection to S1 of the device
Graphical description:			

WAGO-I/O-PRO Library Elements



Function description:

Attention: This module must be executed in its own task with a call-up interval of 70 ms.

This function block supports the 89-bit protocol to read the current of each channel. Depending on the input **xReadSetting** it is differentiated between reading the channels setting or reading the actual current (supported by FW>2.1).
 Devices without overcurrent protection can only display the channels current setting.

The module is activated via the **xActive** input. If configuration of the channels is to be performed using the buttons on the device, the module must be deactivated while configuration is in progress.

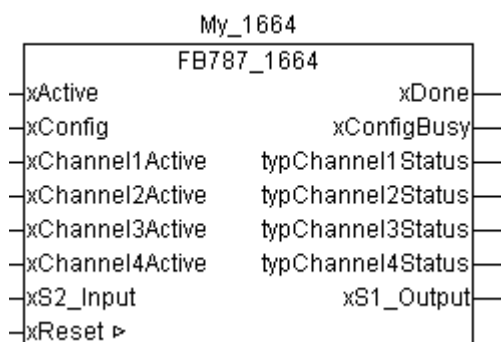
The connection to the device is made via a digital input **xS2_Input** and via a digital output **xS1_Output**.

You can select the channels to be activated via the **xChannelxActive** inputs. Configuration is started using the **xConfig** input. The **xDone** output signals the completion of the configuration procedure. The current status of the various channels is indicated at the **typChannelxStatus** outputs.

FB787_1664

WAGO-I/O-PRO Library Elements			
Category:			
Name:		FB787_1664	
Type:		Function	Function Block X Program
Name of library:		WagoLib787_01.lib	
Libraries used			
Applicable to:		750-8xx	
Input parameter:		Data type:	Description:
xActive		BOOL	Module processing
xConfig		BOOL	Start channel configuration
xChannel1Active		BOOL	Activate Channel 1
xChannel2Active		BOOL	Activate Channel 2
xChannel3Active		BOOL	Activate Channel 3
xChannel4Active		BOOL	Activate Channel 4
xS2_Input		BOOL	Connection to S2 of the device
Input/output parameters:		Data type:	Description:
xReset		BOOL	Reset error and warning
Output parameter:		Data type:	Description:
xDone		BOOL	Configuration has been performed
. xBusy		BOOL	Configuration being performed
typChannel1Status		typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active
typChannel2Status		typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active
typChannel3Status		typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active
typChannel4Status		typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active
xS1_Output		BOOL	Connection to S1 of the device
Graphical description:			

WAGO-I/O-PRO Library Elements



Function description:

Attention: This module must be executed in its own task with a call-up interval of 70 ms.

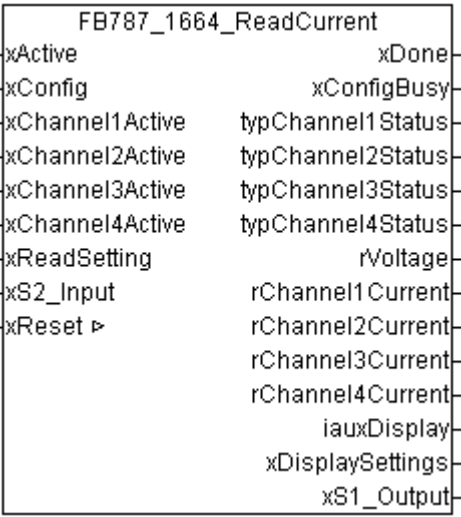
The module is activated via the **xActive** input. If configuration of the channels is to be performed using the buttons on the device, the module must be deactivated while configuration is in progress.

The connection to the device is made via a digital input **xS2_Input** and via a digital output **xS1_Output**.

You can select the channels to be activated via the **xChannelxActive** inputs. Configuration is started using the **xConfig** input. The **xDone** output signals the completion of the configuration procedure. The current status of the various channels is indicated at the **typChannelxStatus** outputs.

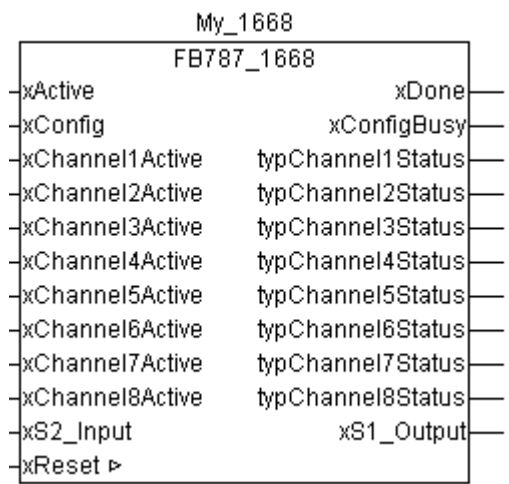
FB787_1664_ReadCurrent

WAGO-I/O-PRO Library Elements			
Category:			
Name:		FB787_1664_ReadCurrent	
Type:		Function	Function Block X Program
Name of library:		WagoLib787_01.lib	
Libraries used			
Applicable to:		750-8xx	
Input parameter:		Data type:	Description:
xActive		BOOL	Module processing
xConfig		BOOL	Start channel configuration
xChannel1Active		BOOL	Activate Channel 1
xChannel2Active		BOOL	Activate Channel 2
xChannel3Active		BOOL	Activate Channel 3
xChannel4Active		BOOL	Activate Channel 4
xReadSetting		BOOL	0:read actual current,1:read setting
xS2_Input		BOOL	Connection to S2 of the device
Input/output parameters:		Data type:	Description:
xReset		BOOL	Reset error and warning
Output parameter:		Data type:	Description:
xDone		BOOL	Configuration has been done
xConfigBusy		BOOL	Configuration being performed
typChannel1Status		typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active
typChannel2Status		typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active
typChannel3Status		typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active
typChannel4Status		typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active
rVoltage		REAL	Supply Voltage
rChannel1Current		REAL	Either actual current or current setting
rChannel2Current		REAL	Either actual current or current setting
rChannel3Current		REAL	Either actual current or current setting
rChannel4Current		REAL	Either actual current or current setting
iauxDisplay		INT	Counter (shows progress)
xDisplaySettings		BOOL	Shows if rChannelxCurrent contains actual current (0) or current settings (1)

WAGO-I/O-PRO Library Elements		
xS1_Output	BOOL	Connection to S1 of the device
Graphical description:		
		
Function description:		
<p>Attention: This module must be executed in its own task with a call-up interval of 70 ms.</p> <p>This function block supports the 89-bit protocol to read the current of each channel. Depending on the input xReadSetting it is differentiated between reading the channels setting or reading the actual current (supported by FW>2.1). Devices without overcurrent protection can only display the channels current setting.</p> <p>The module is activated via the xActive input. If configuration of the channels is to be performed using the buttons on the device, the module must be deactivated while configuration is in progress.</p> <p>The connection to the device is made via a digital input xs2_Input and via a digital output xs1_Output.</p> <p>You can select the channels to be activated via the xChannelxActive inputs. Configuration is started using the xConfig input. The xDone output signals the completion of the configuration procedure. The current status of the various channels is indicated at the typChannelxStatus outputs.</p>		

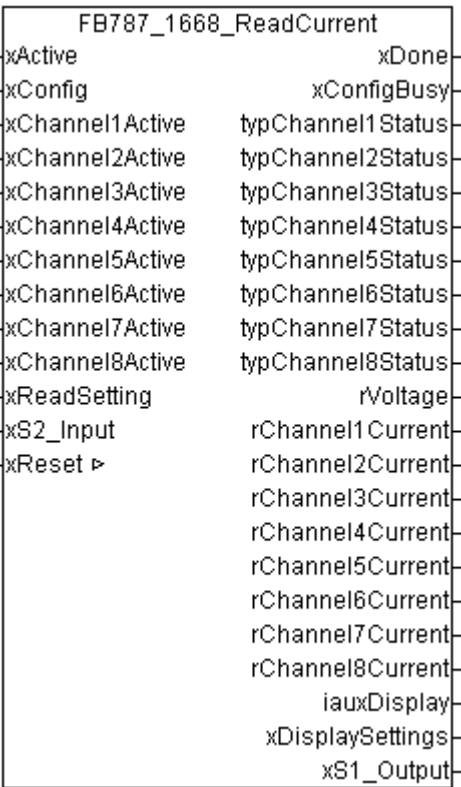
FB787_1668

WAGO-I/O-PRO Library Elements			
Category:			
Name:		FB787_1668	
Type:		Function	Function Block X Program
Name of library:		WagoLib787_01.lib	
Libraries used			
Applicable to:		750-8xx	
Input parameter:		Data type:	Description:
xActive		BOOL	Module processing
xConfig		BOOL	Start channel configuration
xChannel1Active		BOOL	Activate Channel 1
xChannel2Active		BOOL	Activate Channel 2
xChannel3Active		BOOL	Activate Channel 3
xChannel4Active		BOOL	Activate Channel 4
xChannel5Active		BOOL	Activate Channel 5
xChannel6Active		BOOL	Activate Channel 6
xChannel7Active		BOOL	Activate Channel 7
xChannel8Active		BOOL	Activate Channel 8
xS2_Input		BOOL	Connection to S2 of the device
Input/output parameters:		Data type:	Description:
xReset		BOOL	Reset error and warning
Output parameter:		Data type:	Description:
xDone		BOOL	Configuration has been performed
xConfigBusy		BOOL	Configuration being performed
typChannel1Status		typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active
typChannel2Status		typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active
typChannel3Status		typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active
typChannel4Status		typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active
typChannel5Status		typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active

WAGO-I/O-PRO Library Elements		
typChannel6Status	typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active
typChannel7Status	typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active
typChannel8Status	typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active
xS1_Output	BOOL	Connection to S1 of the device
Graphical description:		
		
Function description:		
<p>Attention: This module must be executed in its own task with a call-up interval of 70 ms.</p> <p>The module is activated via the xActive input. If configuration of the channels is to be performed using the buttons on the device, the module must be deactivated while configuration is in progress.</p> <p>The connection to the device is made via a digital input xS2_Input and via a digital output xS1_Output.</p> <p>You can select the channels to be activated via the xChannelxActive inputs. Configuration is started using the xConfig input. The xDone output signals the completion of the configuration procedure. The current status of the various channels is indicated at the typChannelxStatus outputs.</p>		

FB787_1668_ReadCurrent

WAGO-I/O-PRO Library Elements			
Category:			
Name:		FB787_1668_ReadCurrent	
Type:		Function	Function Block X Program
Name of library:		WagoLib787_01.lib	
Libraries used			
Applicable to:		750-8xx	
Input parameter:	Data type:	Description:	
xActive	BOOL	Module processing	
xConfig	BOOL	Start channel configuration	
xChannel1Active	BOOL	Activate Channel 1	
xChannel2Active	BOOL	Activate Channel 2	
xChannel3Active	BOOL	Activate Channel 3	
xChannel4Active	BOOL	Activate Channel 4	
xChannel5Active	BOOL	Activate Channel 5	
xChannel6Active	BOOL	Activate Channel 6	
xChannel7Active	BOOL	Activate Channel 7	
xChannel8Active	BOOL	Activate Channel 8	
xReadSetting	BOOL	0:read actual current,1:read setting	
xS2_Input	BOOL	Connection to S2 of the device	
Input/output parameters:	Data type:	Description:	
xReset	BOOL	Reset error and warning	
Output parameter:	Data type:	Description:	
xDone	BOOL	Configuration has been done	
xConfigBusy	BOOL	Configuration being performed	
typChannel1Status	typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active	
typChannel2Status	typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active	
typChannel3Status	typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active	
typChannel4Status	typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active	
typChannel5Status	typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active	

WAGO-I/O-PRO Library Elements		
typChannel6Status	typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active
typChannel7Status	typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active
typChannel8Status	typEpsitronStatus	0:Channel active ->OK 1:Overload detected ->Warning 2:Triggered ->Tripped 3:Channel not active
rVoltage	REAL	Supply Voltage
rChannel1Current	REAL	Either actual current or current setting
rChannel2Current	REAL	Either actual current or current setting
rChannel3Current	REAL	Either actual current or current setting
rChannel4Current	REAL	Either actual current or current setting
rChannel5Current	REAL	Either actual current or current setting
rChannel6Current	REAL	Either actual current or current setting
rChannel7Current	REAL	Either actual current or current setting
rChannel8Current	REAL	Either actual current or current setting
iauxDisplay	INT	Counter (shows progress)
xDisplaySettings	BOOL	Shows if rChannelxCurrent contains actual current (0) or current settings (1)
xS1_Output	BOOL	Connection to S1 of the device
Graphical description:		
		

WAGO-I/O-PRO Library Elements
Function description:
<p>Attention: This module must be executed in its own task with a call-up interval of 70 ms.</p> <p>This function block supports the 89-bit protocol to read the current of each channel. Depending on the input xReadSetting it is differentiated between reading the channels setting or reading the actual current (supported by FW>2.1). Devices without overcurrent protection can only display the channels current setting.</p> <p>The module is activated via the xActive input. If configuration of the channels is to be performed using the buttons on the device, the module must be deactivated while configuration is in progress.</p> <p>The connection to the device is made via a digital input xs2_Input and via a digital output xs1_Output.</p> <p>You can select the channels to be activated via the xChannelxActive inputs. Configuration is started using the xConfig input. The xDone output signals the completion of the configuration procedure. The current status of the various channels is indicated at the typChannelxStatus outputs.</p>

FB787_1675GetData

WAGO-I/O-PRO Library Elements			
Category:			
Name:		FB787_1675GetData	
Type:		Function	Function Block X Program
Name of library:		WagoLib787_01.lib	
Libraries used		Sercom.lib; Serial_Interface_01.lib	
Applicable to:		750-8xx	
Input parameter:	Data type:	Description:	
xEnable	BOOL	Module processing	
bComPortNumber	BYTE	Interface number	
xReset	BOOL	Reset	
Input/output parameters:	Data type:	Description:	
Output parameter:	Data type:	Description:	
sDeviceId	STRING	Device ID	
wCurrent	WORD	Current	
rChargingVoltage	REAL	Charging voltage	
rBufferModeCurrent	REAL	Current during Buffer mode	
rAccuTemperature	REAL	Battery temperature	
rOutputVoltage	REAL	Output voltage	
rChargingCurrent	REAL	Charging current	
wStatus	WORD	Status	
wSwitchPosition	WORD	Switch setting	
xDataValid	BOOL	Data valid	
xComPortOpen	BOOL	Interface is open	
Graphical description:			
<div><div>FB787_1675GetData</div><div><div>xEnable</div><div>bComPortNumber</div><div>xReset</div></div><div><div>sDeviceId</div><div>wCurrent</div><div>rChargingVoltage</div><div>wBufferModeCurrent</div><div>rAccuTemperatur</div><div>rOutputVoltage</div><div>rChargingCurrent</div><div>wStatus</div><div>wSwitchPosition</div><div>xDataValid</div><div>xComPortOpen</div></div></div>			

WAGO-I/O-PRO Library Elements
Function description:
<p>The module is activated via the xEnable input.</p> <p>The xOpenComPort output is set to True after the interface has been opened successfully. The xDataValid bit is set to True when the module has output a valid data set.</p>